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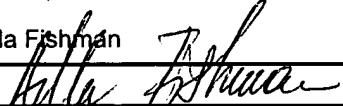
Total Number of Pages in This Submission

Application Number	10/664,617
Filing Date	September 19, 2003
First Named Inventor	Vipul Shah
Art Unit	1646
Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number 03-28 US

ENCLOSURES (Check all that apply)

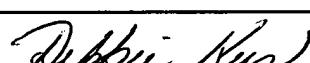
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Firm or Individual name	Bela Fishman
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Date	January 14, 2004

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DOCKET NO.: 03-28 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

File the Application of:

Vipul Shah

Serial No.: 10/664,617

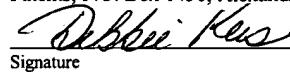
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PURIFICATION

Examiner: *To be assigned*

Art Unit: 1646

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Sir:

In accordance with the Applicants duty of disclosure under 37 CFR §1.56 and further in accordance with the provisions of 37 CFR §1.97 and 1.98, the Examiner is requested to consider and cite the references listed on the enclosed form.

The filing of an Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be prior art or material to patentability as defined by §1.56.

Copies of the foreign patent references and non-patent literature are enclosed for the Examiner's convenience.

Consideration and citation of the reference is respectfully requested and deemed in order.

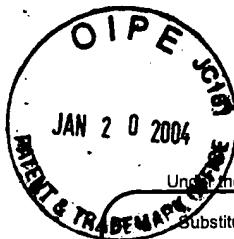
Respectfully submitted,



Bella Fishman
Agent for Applicant
Registration No. 37,485

Date: January 14, 2004

Varian, Inc.
Legal Department
3120 Hansen Way, D-102
Palo Alto, CA 94304
(650) 424-5086



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

Complte if Known

Application Number	10/664,617
Filing Date	January 14, 2004
First Named Inventor	Vipul Shah
Art Unit	1646
Examiner Name	

Attorney Docket Number 03-28 US

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
1	US- 2003/0055241 A1		03/20/2003	Moore, et al.	
2	US- RE 34,069		09/15/1992	Koster, et al.	
3	US- 4,352,909		10/05/1982	Barda, et al.	
4	US- 4,469,863		09/04/1984	Ts'o, et al.	
5	US- 4,725,677		02/16/1988	Koster, et al.	
6	US- 4,774,339		09/27/1988	Haugland, et al.	
7	US- 5,034,506		07/23/1991	Summerton, et al.	
8	US- 5,124,047		06/23/1992	Quach, et al.	
9	US- 5,138,045		08/11/1992	Cook, et al.	
10	US- 5,187,288		02/16/1993	Kang, et al.	
11	US- 5,214,134		05/25/1993	Weis, et al.	
12	US- 5,216,141		06/01/1993	Steven A. Benner	
13	US- 5,218,105		06/08/1993	Cook, et al.	
14	US- 5,223,618		06/29/1993	Cook, et al.	
15	US- 5,248,782		09/28/1993	Haugland, et al.	
16	US- 5,264,562		11/23/1993	Mark Matteucci	
17	US- 5,274,113		12/28/1993	Kang, et al.	
18	US- 5,278,302		01/11/1994	Caruthers, et al.	
19	US- 5,321,131		06/14/1994	Agrawal, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
60	WO 86/05518		09/25/1986	Summerton, et al.		
61	WO 90/15065		12/13/1990	Gilead Sciences		
62	WO 91/18997		12/12/1991	Gilead Sciences		
63	WO 92/05186		04/02/1992	Gilead Sciences		

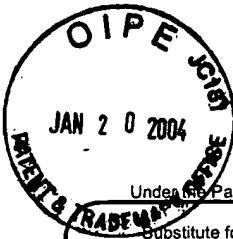
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Sheet

2 of 15

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Application Number	10/664,617
Filing Date	January 14, 2004
First Named Inventor	Vipul Shah
Art Unit	1646
Examiner Name	

Attorney Docket Number 03-28 US

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
20	US- 5,359,044	10/25/1994	Cook, et al.		
21	US- 5,378,825	01/03/1995	Cook, et al.		
22	US- 5,386,023	01/31/1995	Sanghvi, et al.		
23	US- 5,433,896	07/18/1995	Kang, et al.		
25	US- 5,434,257	07/18/1995	Matteucci, et al.		
26	US- 5,451,663	09/19/1995	Kang, et al.		
27	US- 5,455,233	10/03/1995	Spielvogel, et al.		
28	US- 5,457,191	10/10/1995	Cook, et al.		
29	US- 5,459,255	10/17/1995	Cook, et al.		
30	US- 5,466,677	11/14/1995	Baxter, et al.		
31	US- 5,470,967	11/28/1995	Huie, et al.		
32	US- 5,489,677	02/06/1996	Sanghvi, et al		
33	US- 5,506,351	04/09/1996	Daniel McGee		
34	US- 5,519,126	05/21/1996	Sidney Hecht		
35	US- 5,541,307	07/30/1996	Cook, et al.		
36	US- 5,543,507	08/06/1996	Cook, et al.		
37	US- 5,571,902	11/05/1996	Ravikumar, et al.		
38	US- 5,578,718	11/26/1996	Cook, et al.		
39	US- 5,585,236	12/17/1996	Bonn, et al.		

FOREIGN PATENT DOCUMENTS

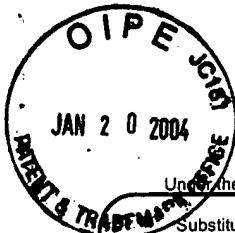
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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
40	US- 5,587,361		12/24/1996	Cook, et al.	
41	US- 5,587,469		12/24/1996	Cook, et al.	
42	US- 5,587,470		12/24/1996	Cook, et al.	
43	US- 5,596,086		01/21/1997	Matteucci, et al.	
44	US- 5,602,240		02/11/1997	De Mesmaeker, et al.	
46	US- 5,610,289		03/11/1997	Cook, et al.	
47	US- 5,614,617		03/25/1997	Cook, et al.	
48	US- 5,670,633		09/23/1997	Cook, et al.	
49	US- 5,792,608		08/11/1998	Swaminathan, et al.	
50	US- 5,817,781		10/06/1998	Swaminathan, et al.	
51	US- 5,882,551		03/16/1999	Dever, et al.	
52	US- 6,156,896		12/05/2000	Curran, et al.	
53	US- 6,288,157		09/11/2001	Jariwala, et al.	
54	US- 6,320,040		11/20/2001	Cook, et al.	
55	US- 6,355,791		03/12/2002	Gjerde, et al.	
56	US- 6,447,749		09/10/2002	Licha, et al.	
57	US- 6,518,368		02/11/2003	Gill, et al.	
58	US- 6,521,714		02/18/2003	Kolich, et al.	
59	US- 6,525,127		02/25/2003	Jariwala, et al.	

FOREIGN PATENT DOCUMENTS

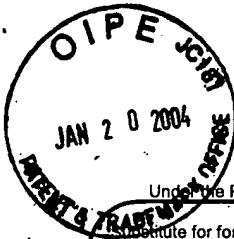
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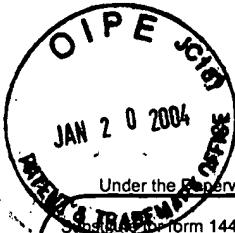
C <i>mpl te if Known</i>	
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	64	Abstract by HAUNG, GJ and KRUGH, TR, entitled "Large Scale Purification of Synthetic Oligonucleotides and Carcinogen-modified oligodeoxynucleotides on a reverse-phase polystyrene (PRP-1) column", download from www.ncbi.nlm.nih.gov, September 9, 2003	
	65	Article by BOSCH, JT, et al., entitled "Validation of Sequence-Optimized 70 Base Oligonucleotides for Use on DNA Microarrays", published 09/2003, OPERON, A Qiagen Company	
	66	Article by KANE, MD, et al., entitled "Assessment of the Sensitivity and Specificity of Oligonucleotide (50mer) Microarrays", published in Nucleic Acids Research, 2000, Vol. 28, No. 22, pages 4552-4557	
	67	Article by HUBER, CG, et al., entitled "High-Resolution Liquid Chromatography of Oligonucleotides on Nonporous Alkylated Styrene-Divinylbenzene Copolymers", published by Analytical Biochemistry, 212, pages 351-358 (1993)	
	68	Article by TALLARICO, JA., et al. entitled "An Alkylsilyl-Tethered, High-Capacity Solid Support Amenable to Diversity-Oriented Synthesis for One-Bead, One-Stock Solution Chemical Genetics", published by Journal of Combinatorial Chemistry, 2001, Vol. 3, No. 3, pages 312-318	
	69	Article by TAN, DS., et al., entitled "Stereoselective Synthesis of over Two Million Compounds Having Structural Features Both Reminiscent of Natural Products and Compatible with Miniaturized Cell-Based Assays, published in J. Am. Chem. Soc, 1998, 120, pages 8565-8566	
	70	Abstract by STIRCHAK, EP entitled "Uncharged stereoregular nucleic acid analogs: 2. Morpholion nucleoside oligomers with carbamate internucleoside linkages, published in Nucleic Acids Res. 1989, Aug 11;17(15):6129-41.	
	71	Article by BEAUCAGE, SL and IYER, RP, entitled "The Synthesis of Specific Ribonucleotides and Unrelated Phosphorylated Biomolecules by the Phosphoramidite Method, published in Tetrahedron, Vol. 49, No. 46, pages 10441-10488, 1993.	
	72	Article by MERTES, MP and COATS, EA entitled "Synthesis of Carbonate Analogs Dinucleosides", published J. Med. Chem., 1969, Vol. 12, pages 154-157.	
	73	Article by VASSEUR, et al., entitled "Oligonucleosides: Synthesis of a Novel Methylhydroxylamine-Linked Nucleoside Dimer and Its Incorporation into Antisense Sequences" published by J. Am. Chem. Soc, 1992, 114, pages 4006-4007.	

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	74	Article by SOOD, A, et al., entitled "Boron-Containing Nucleic Acids" published by J. Am. Chem. Soc., 1990, 112, pages 9000-9001.	
	75	Article by MUSICKI B and WIDLANSKI TS entitled "Synthesis of Carbohydrate Sulfonates and Sulfonate Exters" published by J. Org. Chem., Vol. 55, No. 14, 1990, pages 4231 - 4233.	
	76	Article by STIRCHAK, EP and SUMMERTON, JE entitled "Uncharged Stereoregular Nucleic Acid Analogues" published J. Org. Chem., 1987, 52, pages 4202-4206.	
	77	Article by REYNOLDS, RC et al., entitled "Synthesis of Thymidine Dimers Containing Internucleoside Sulfonate and Sulfonamide Linkages" published by J. Org. Chem., 1992, 57, pages 2983-2985.	
	78	Article by SAMUKOV, VV et al., entitled "2-(4-Nitrophenyl)sulfonylethoxycarbonyl (Nsc) Group as a Base-Labile a-Amino Protection for Solid Phase Peptide Synthesis, published by Tetrahedron Letters, Vol. 35, No. 42, pages 7821-7824, 1994.	
	79	Article by WANG H. and WELLER DD entitled "Solid Phase Synthesis of Neutral Oligonucleotide Analogues" published by Tetrahedron Letters, Vol. 32, No. 50, pages 7385-7388, 1991.	
	80	Article by MUNGALL, WS and KAISER, JK entitled "Carbamate Analogues of Oligonucleotides" published by J. Org. Chem., Vol. 42, No. 4, 1977, pages 703-706.	
	81	Article by COULL, JM et al., entitled "Synthesis and Characterization of a Carbamate-Linked Oligonucleosides" published by Tetrahedron Letters, Vol. 28, No. 7, pages 745-748, 1987.	
	82	Article by BEAUCAGE, SL and IYER, RP, entitled "Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach", published by Tetrahedron, Vol. 48, No. 12, pages 2223-2311, 1992.	
	83	Article by BEAUCAGE, SL and IYER, RP, entitled "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives", published by Tetrahedron, Vol. 49, No. 10, pages 1925-1963, 1993.	

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